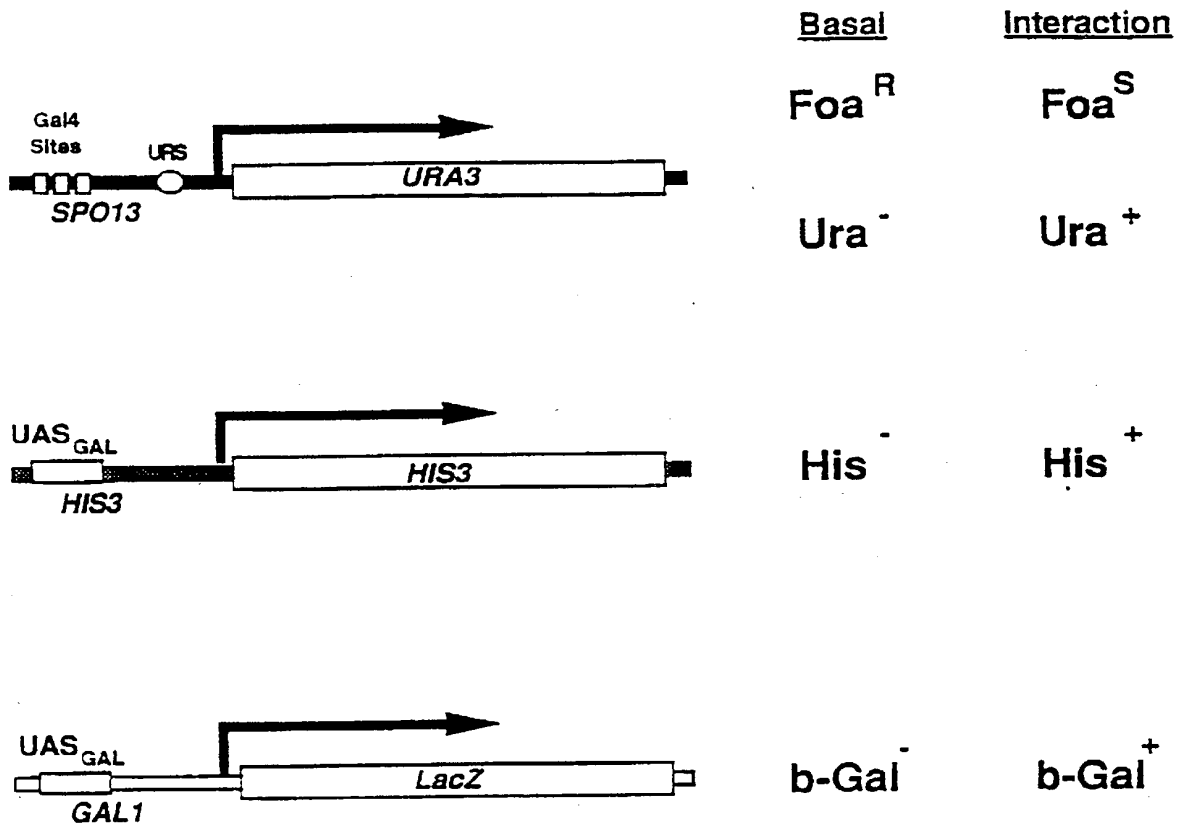


FIGURE 1

Matter No.: 10974-239005
 Applicant(s): Marc Vidal et al.
 REVERSE TWO-HYBRID SYSTEMS

Page 1 of 28



10074-239005

FIGURE 2

Matter No.: 10974-239005
 Applicant(s): Marc Vidal et al.
 REVERSE TWO-HYBRID SYSTEMS

Page 2 of 28

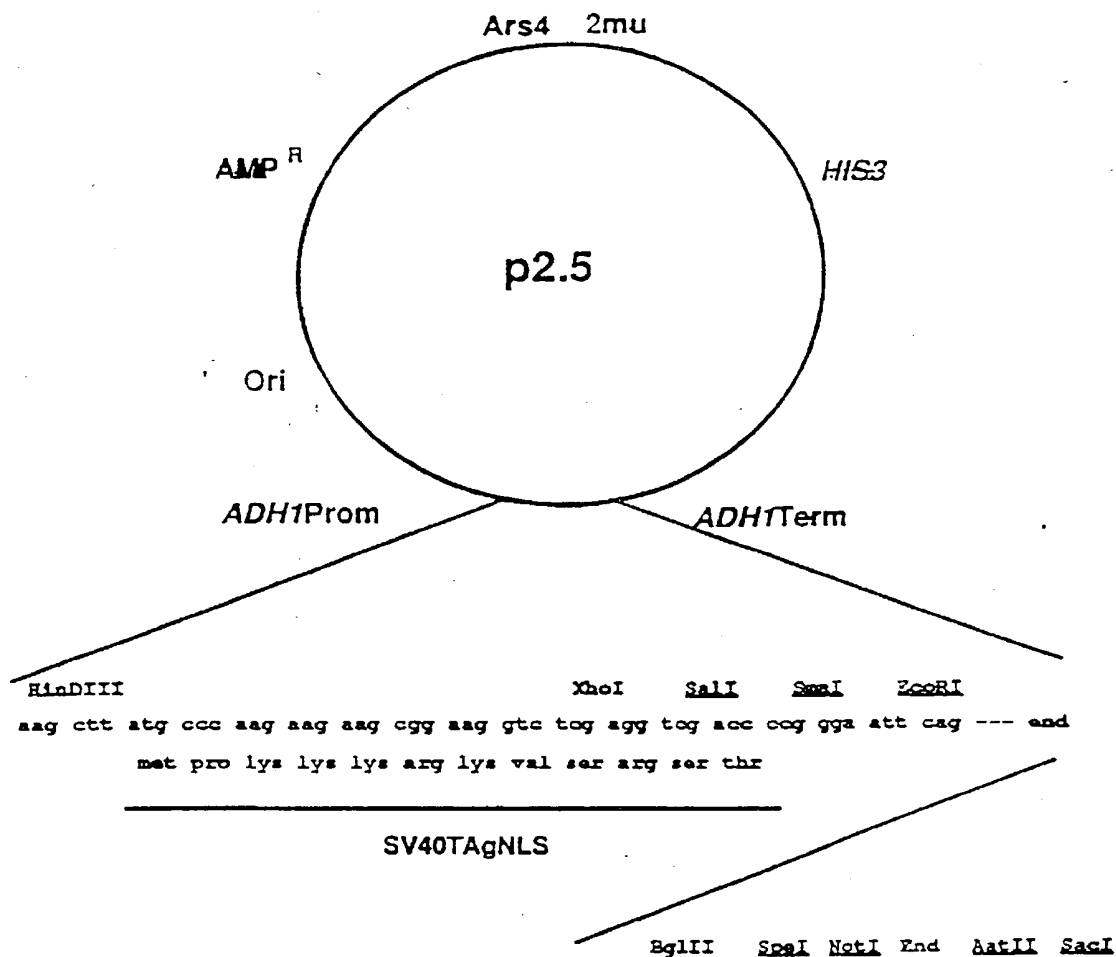


FIGURE 3

Matter No.: 10974-239005
Applicant(s): Marc Vidal et al.
REVERSE TWO-HYBRID SYSTEMS

Page 3 of 28

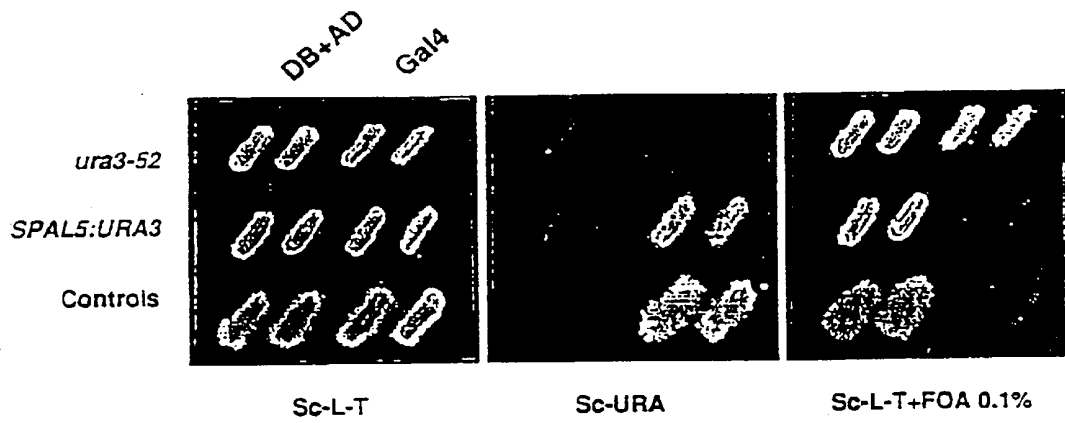
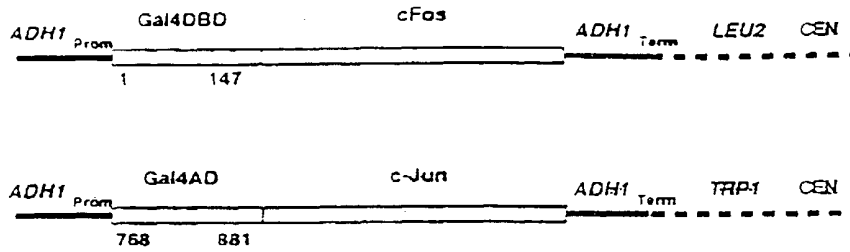


FIGURE 4

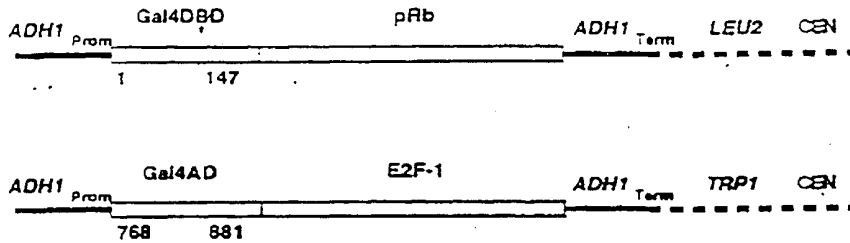
Matter No.: 10974-239005
Applicant(s): Marc Vidal et al.
REVERSE TWO-HYBRID SYSTEMS

Page 4 of 28

1)



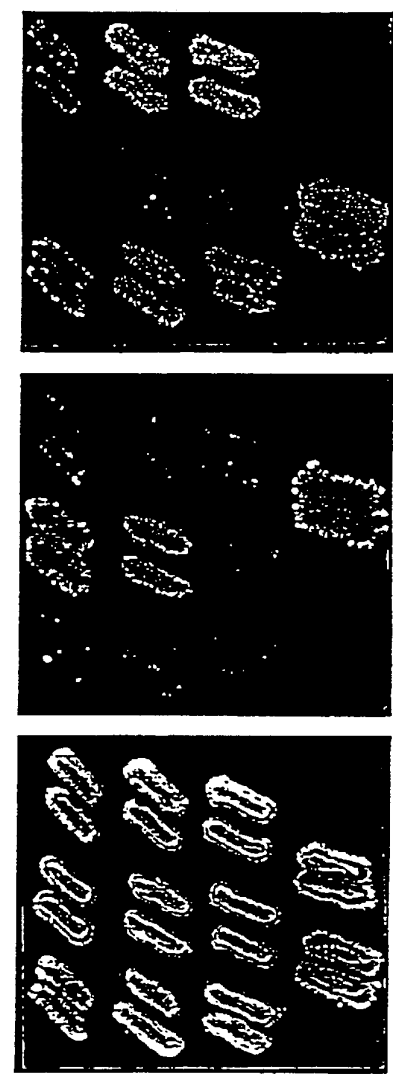
2)



1027019.1.23.104

Matter No.: 10974-239005
 Applicant(s): Marc Vidal et al.
 REVERSE TWO-HYBRID SYSTEMS

DB	Gal4	Vectors
AD		
DB-Fos	DB-Fos	DB
AD	AD-Jun	AD-Jun
DB-Rb	DB-Rb	DB
AD	AD-E2F	AD-E2F
	Controls	



Sc-L-T Sc-L-T-URA Sc-L-T+FOA 0.2%

FIGURE 5

FOI 227 5 T2 2005

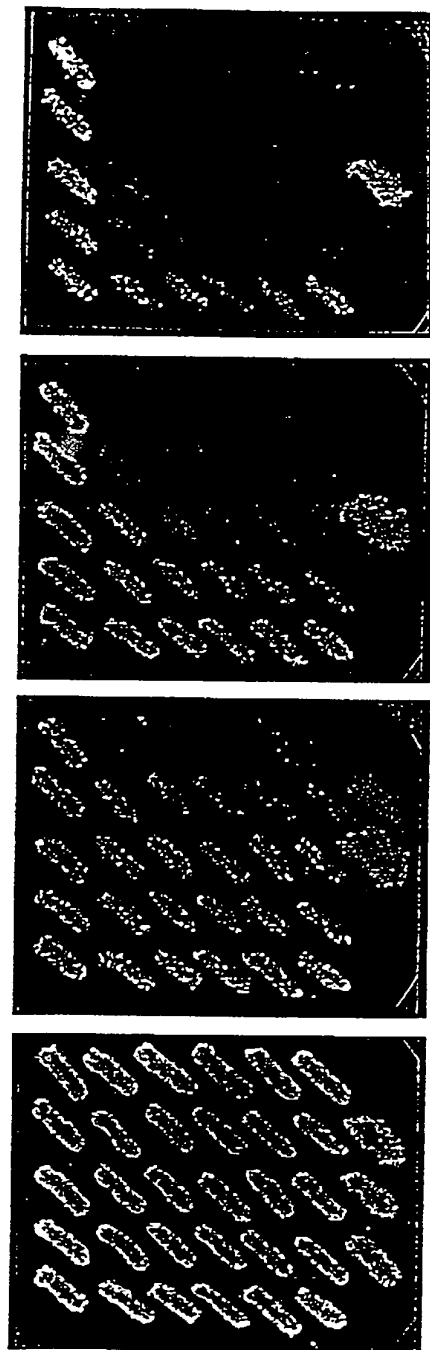
FIGURE 6

FOIA b 7 - D

Matter No.: 10974-239005
 Page 6 of 28

Applicant(s): Marc Vidal et al.
 REVERSE TWO-HYBRID SYSTEMS

DB+AD
 DB-Jun+AD-Jun
 DB-Rb+AD-E2F
 DB-Fos+AD-Jun
 Gal4



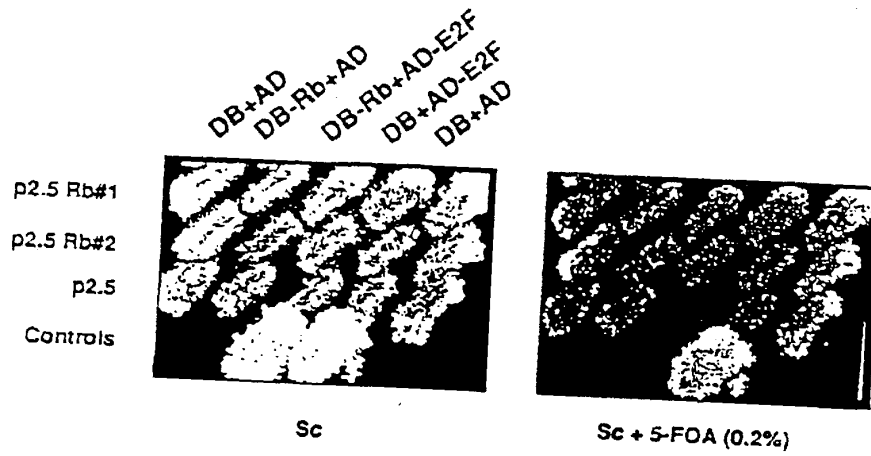
ura3-52
 SPAL5:URA3
 SPAL7:URA3
 SPAL8:URA3
 SPAL10:URA3
 SPALX:URA3
 Controls

Sc-L-T
 Sc-L-T+FOA 0.05%
 Sc-L-T+FOA 0.1%
 Sc-L-T+FOA 0.2%

FIGURE 7

Matter No.: 10974-239005
Applicant(s): Marc Vidal et al.
REVERSE TWO-HYBRID SYSTEMS

Page 7 of 28



100274239005

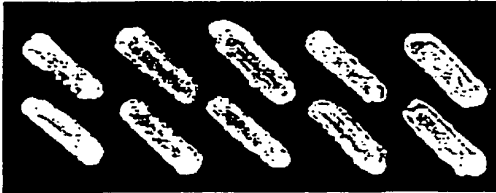
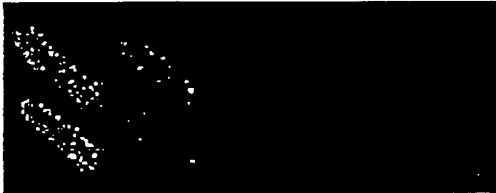
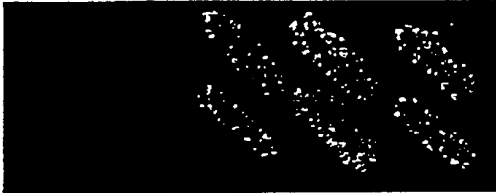


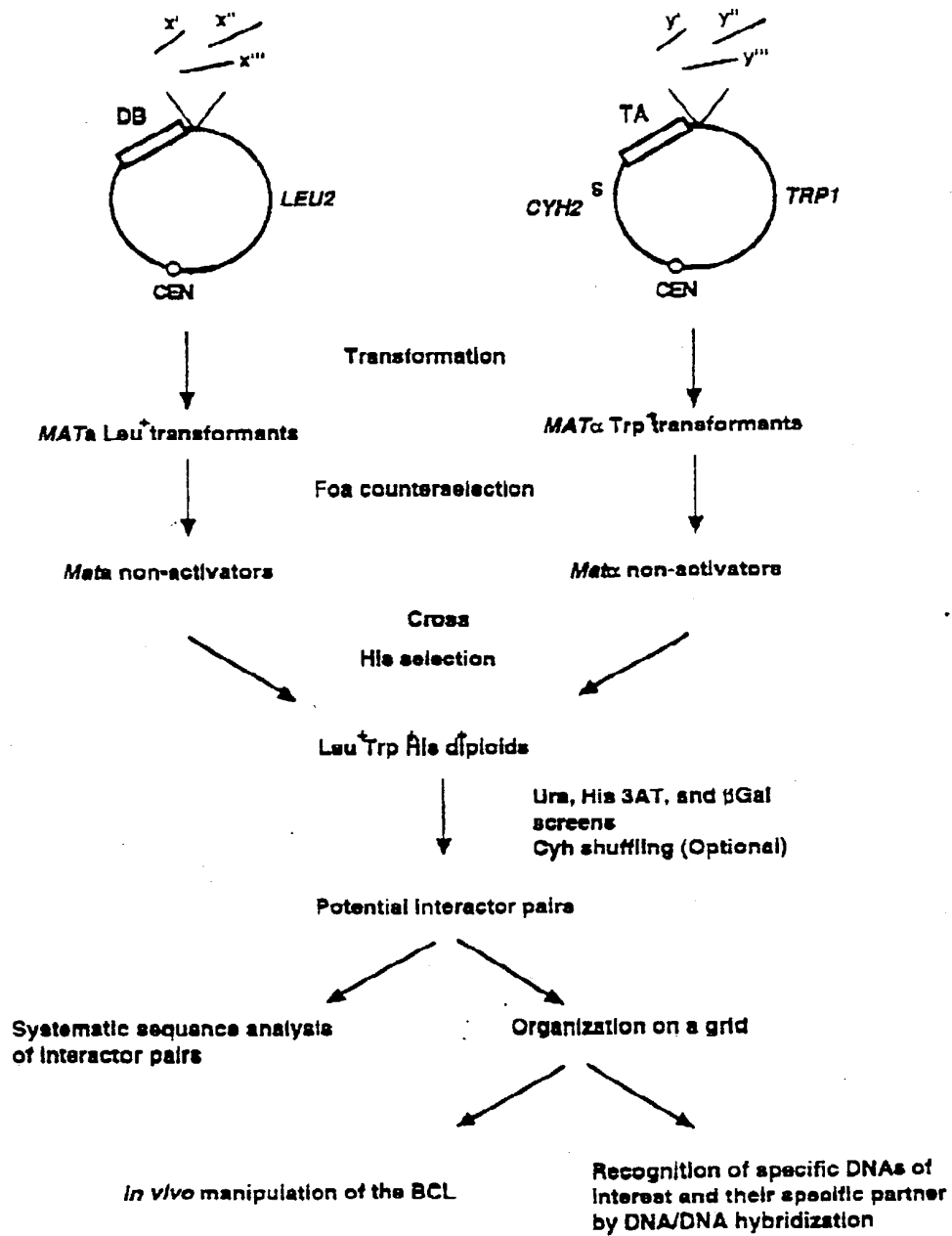
DB+AD		Sc-L-T
DB-pRb+AD-E2F1		FOA 0.2%
DB-Fos+AD-Jun		Sc-URA
Gal4+AD		3AT 10mM
DB-dDP1+AD-dE2F		X-GAL

FIGURE 9



TOTAL "E" GAL4

GAL4

146 147

VAL SER SER ARG SER THR PRO GLY LE GLN ILE TYR END
GTA TCG TCG AGG TCG ACC CGG GGA ATT CAG ATC TAC TAG TCGCGCGGC

Sal I Sma I EcoR I Bgl II Spe I Not I

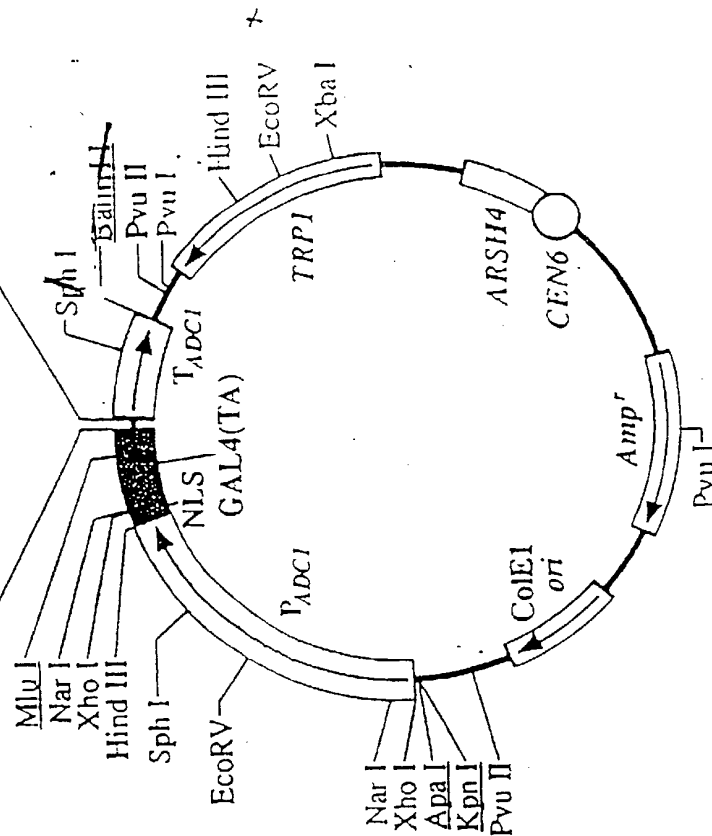
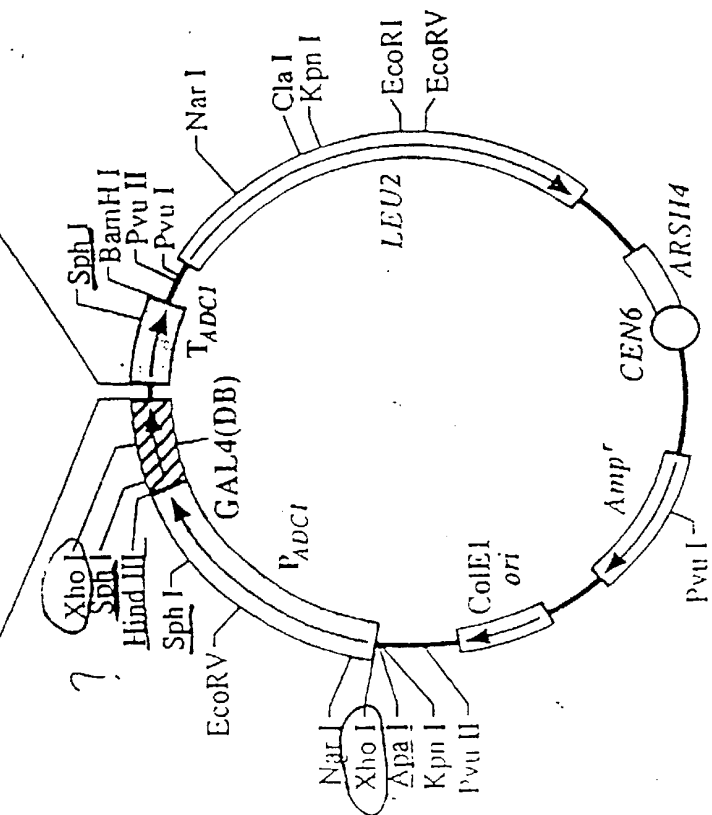
END END END
TAAGTAAGTAAAGCGGCTCTAAGTAAGTAAAGCGGCGCCACCGCGGTGAGCTTT
Aat II Sac I T_{ADC1}

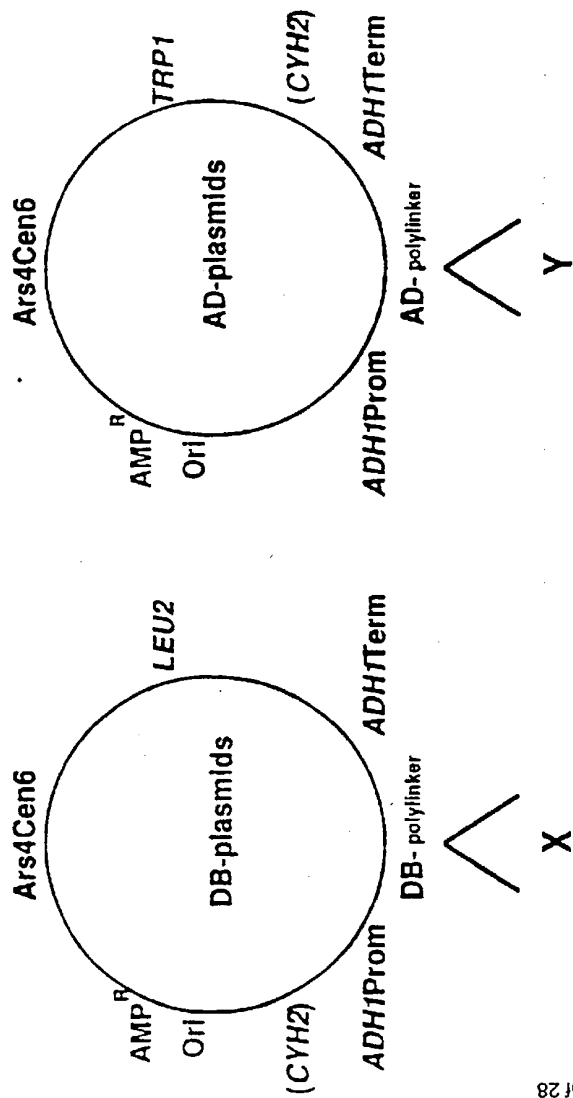
880 881

LYS GLU GLY GLY SER THR PRO GLY ILE GLN ILE TYR END
AAA GAG GGT GCG TCG ACC CGG GGA ATT CAG ATC TAC TAG TCGCGCGGC

Sal I Sma I EcoR I Bgl II Spe I Not I

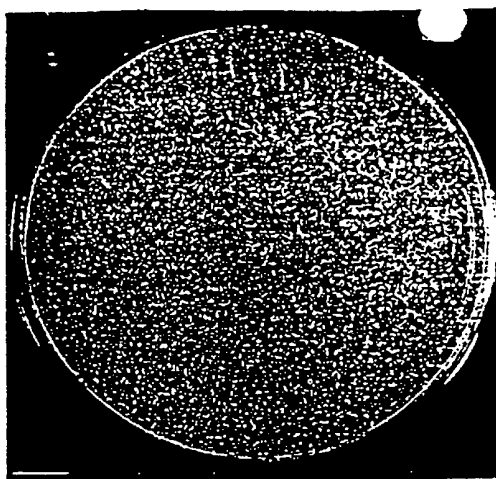
END END END
TAAGTAAGTAAAGCGGCTCTAAGTAAGTAAAGCGGCGCCACCGCGGTGAGCTTT
Aat II Sac I T_{ADC1}



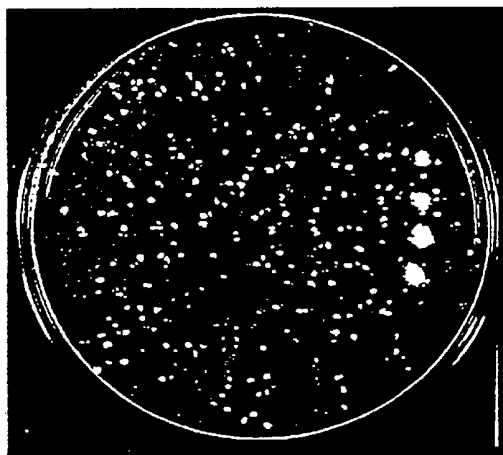
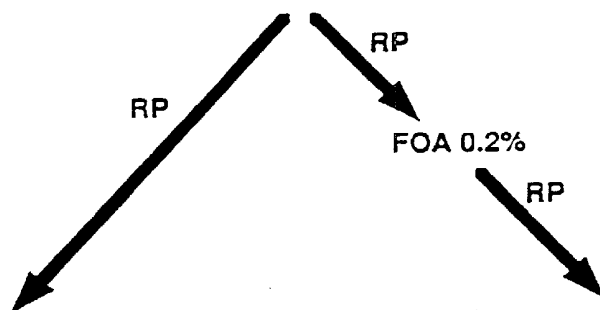


DB-X	Total	His+	Retested	Known Interacting	"Novel" Interacting	False positive
None	1x10 ⁶	1	0			
p130	5x10 ⁵	19	9	0	5 → 2	
DP1	2x10 ⁵	7	7	6 → 2	1 → 1	
pRb	1x10 ⁶	20	0			
p35	1x10 ⁶	20	8	0	8 → 2	0
CDK3	1x10 ⁶	38	16			
CDK3	1x10 ⁶	38	16			
DCC1	3x10 ⁶	81	23	0		
Zebu	1x10 ⁶	81	23			

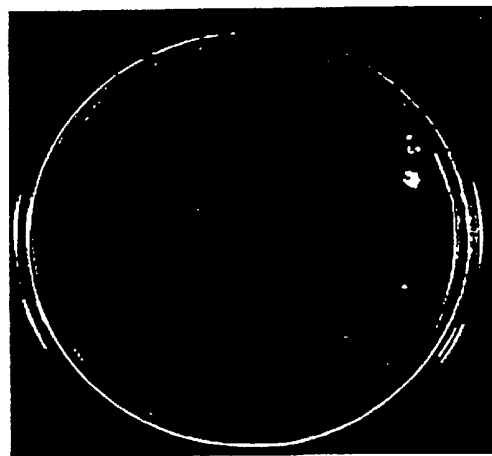
FIGURE 12



Sc-L



3AT 10mM



AD-Y AD-pRb AD-107 AD-130 DP1 CDK2 Jun None

DB-X

None

E2F1

E2F2

E2F3

E2F4

Fos

Jun

CyclinA

p21

DCC1

2

1

2

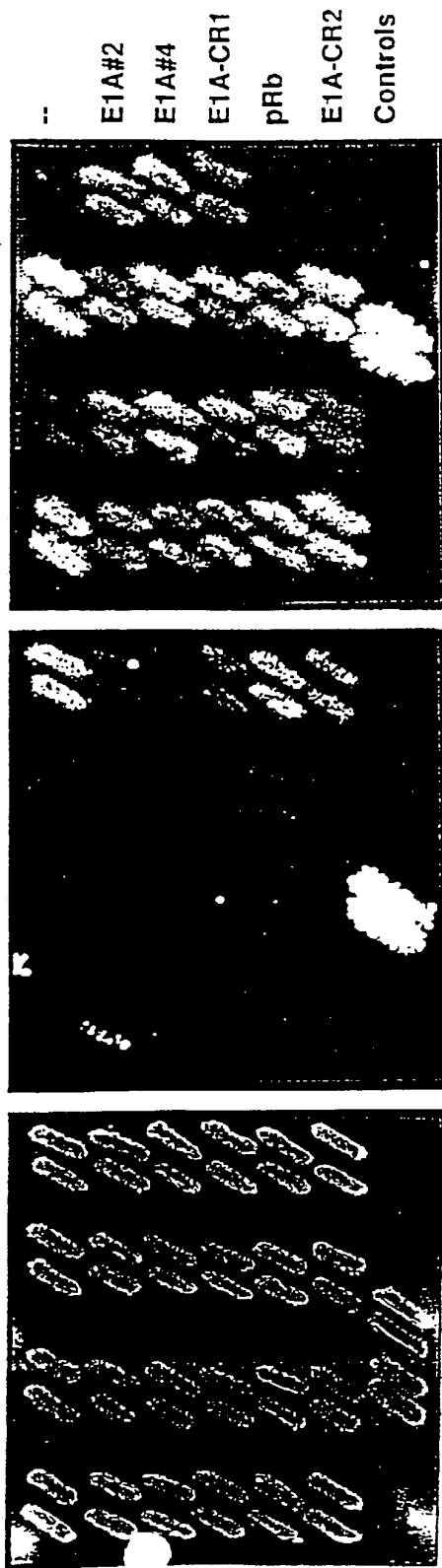
24

39

FIGURE 14

FOI 2025-015122001

DB-Rb + AD
DB-Rb + AD-E2F-1
DB-p107 + AD
DB-p107 + AD-E2F-4



Sc-L-T-H

Sc-L-T-H-U

Sc-L-T-H+FOA 0.2%

FIGURE 15

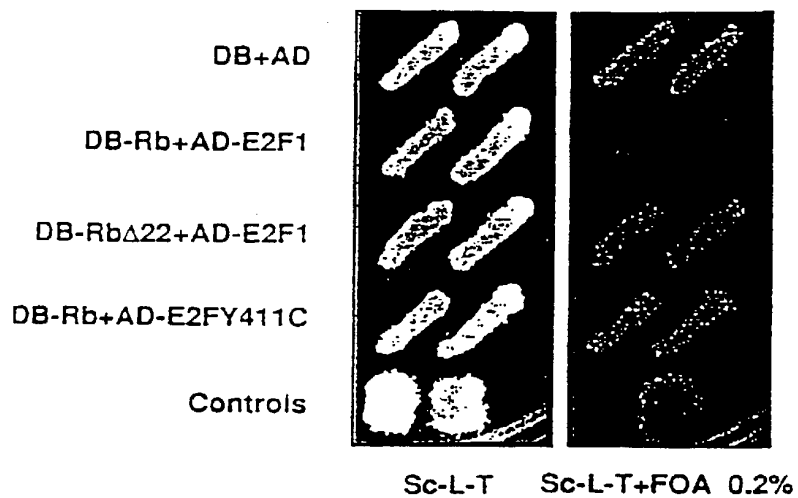


FIGURE 16

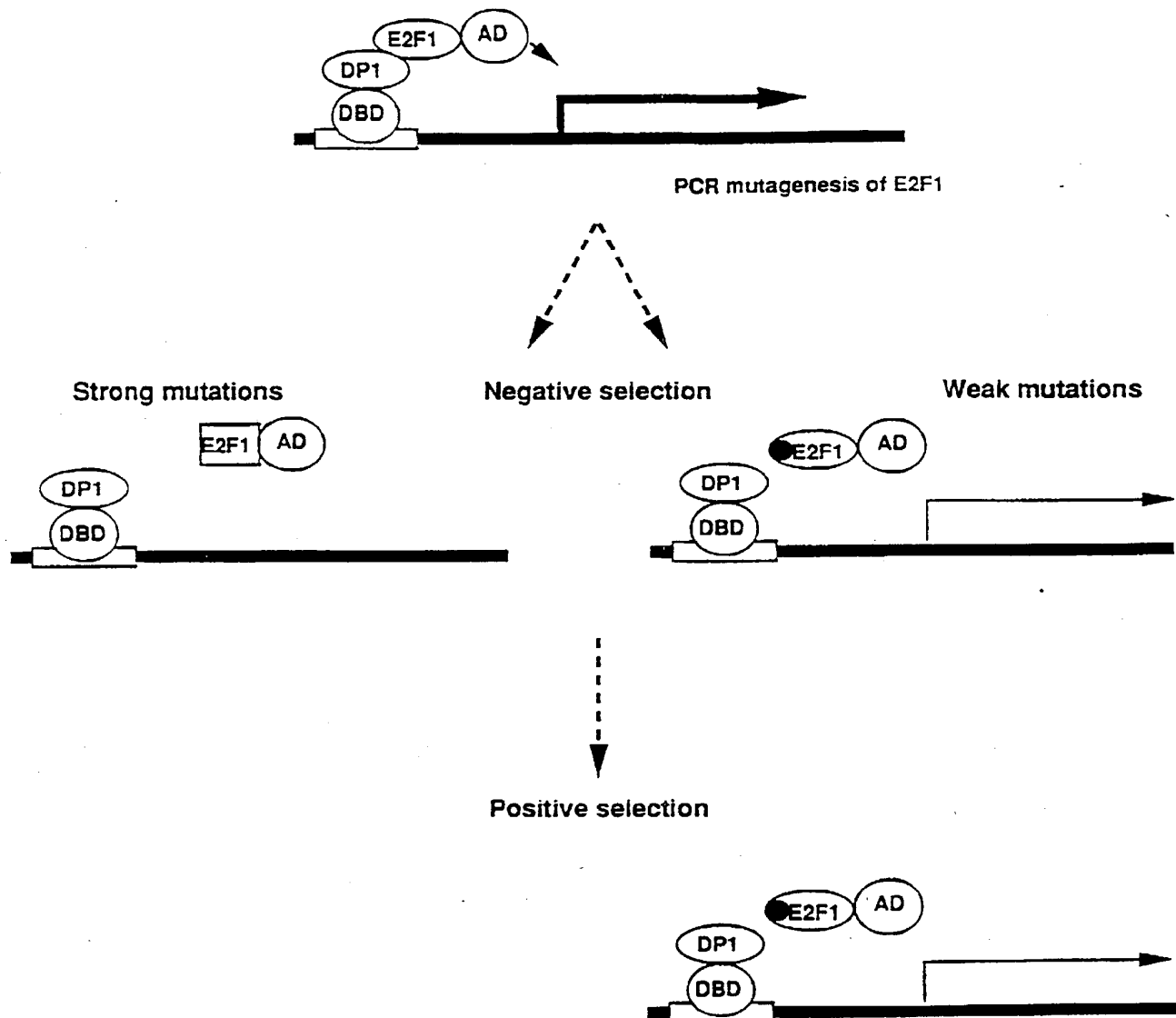


FIGURE 17
FOA 6T2/200T

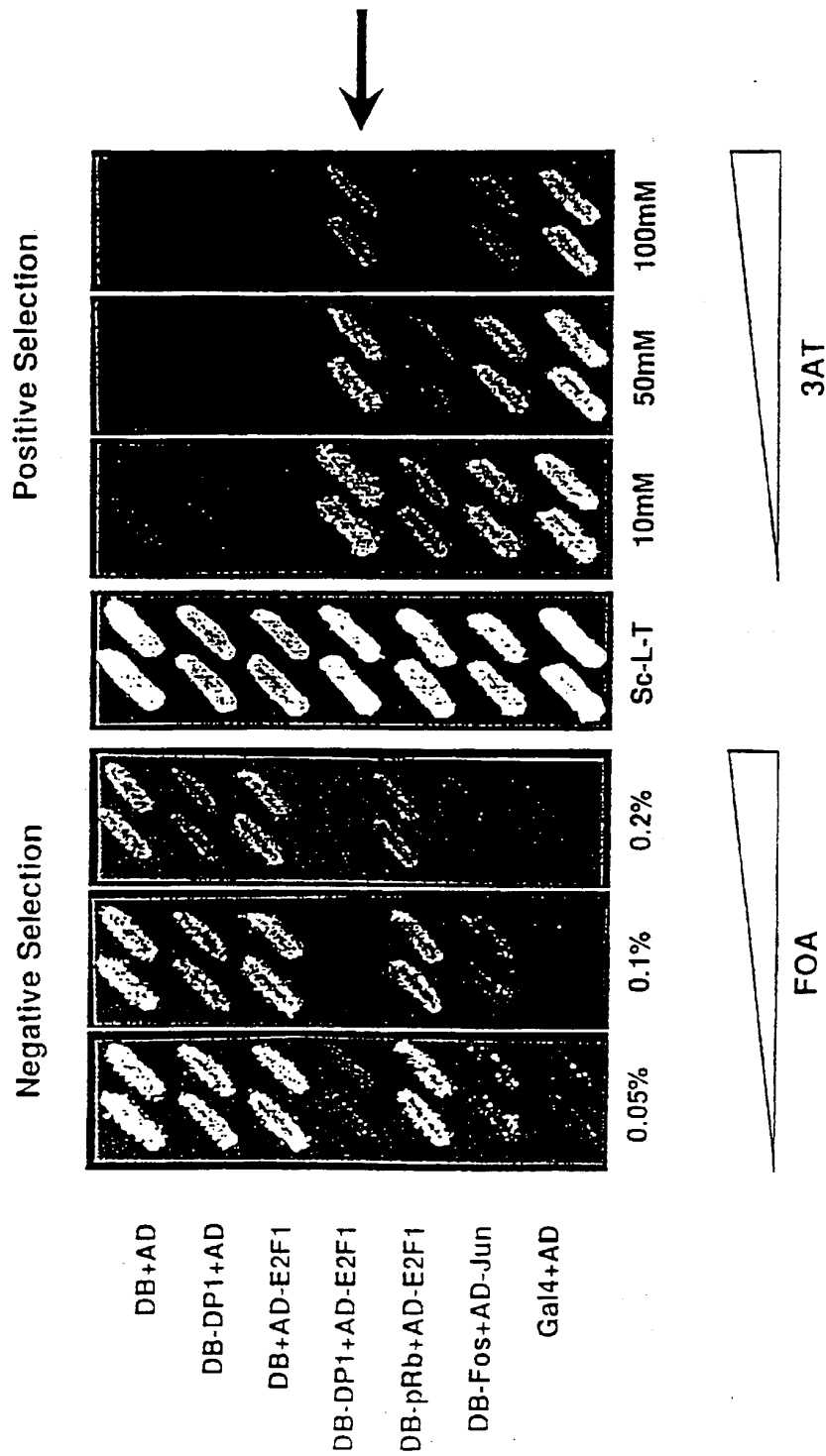


FIGURE 18A

PCR reaction

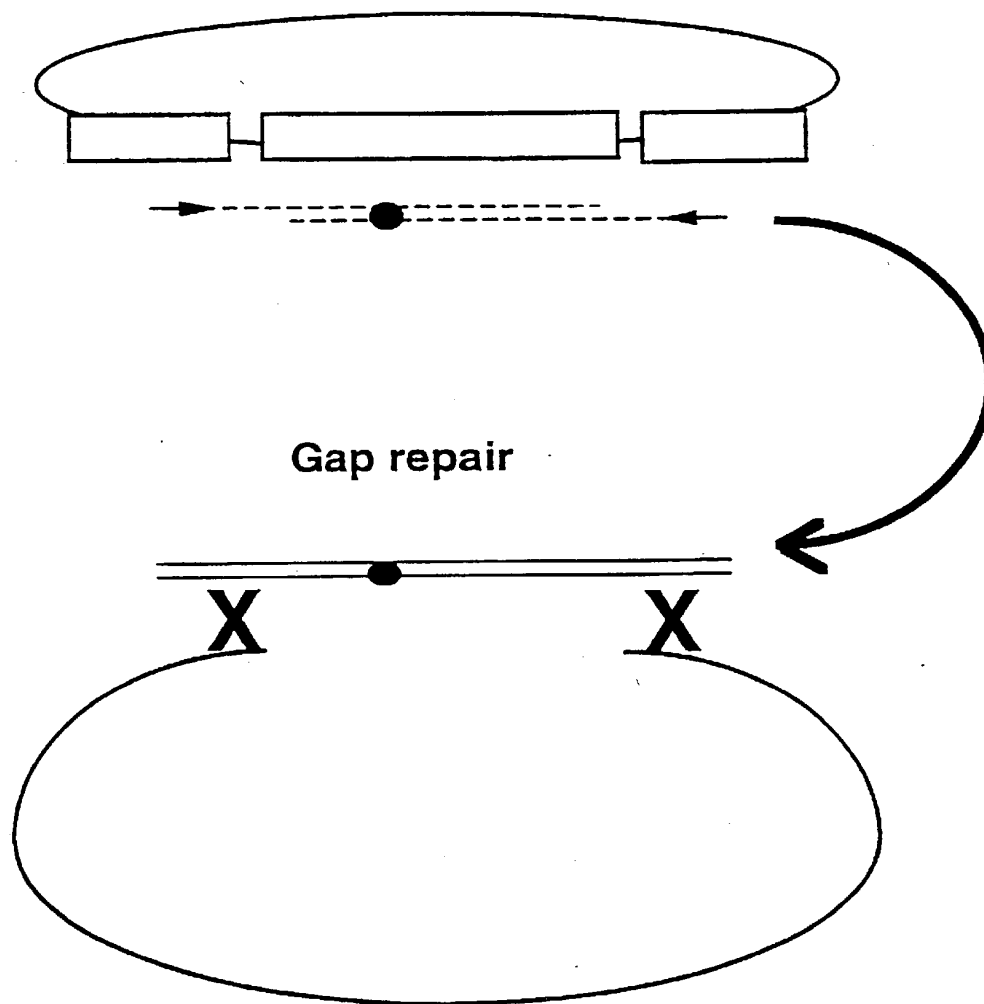
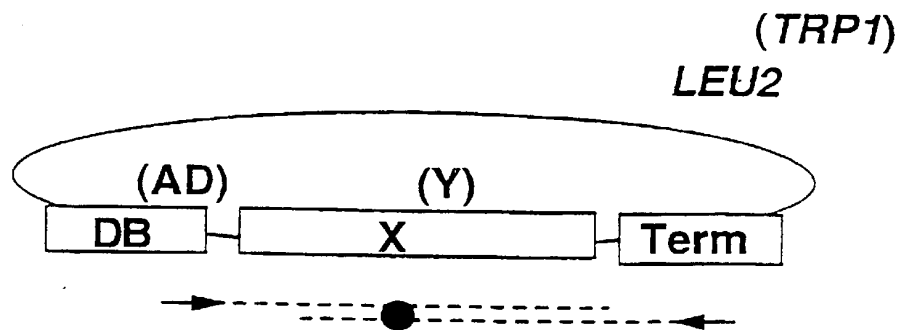


FIGURE 18B

In vitro mutagenic PCR reaction



In vivo gap repair

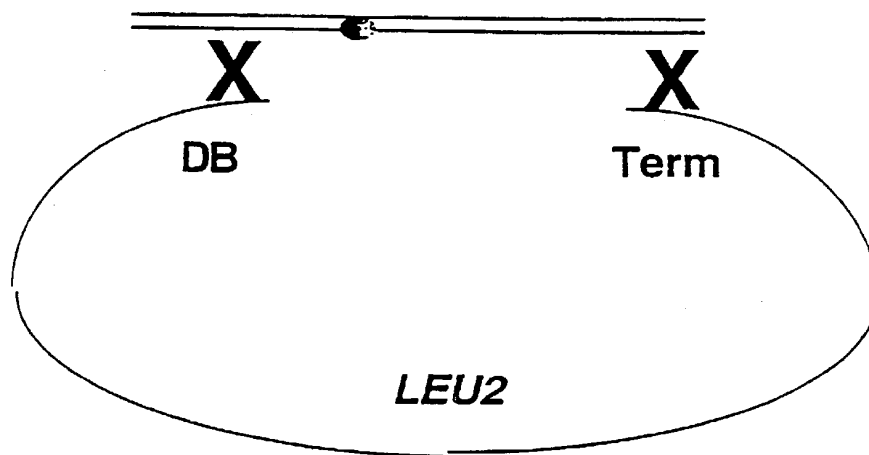


FIGURE 19

FOIA b 7 - D

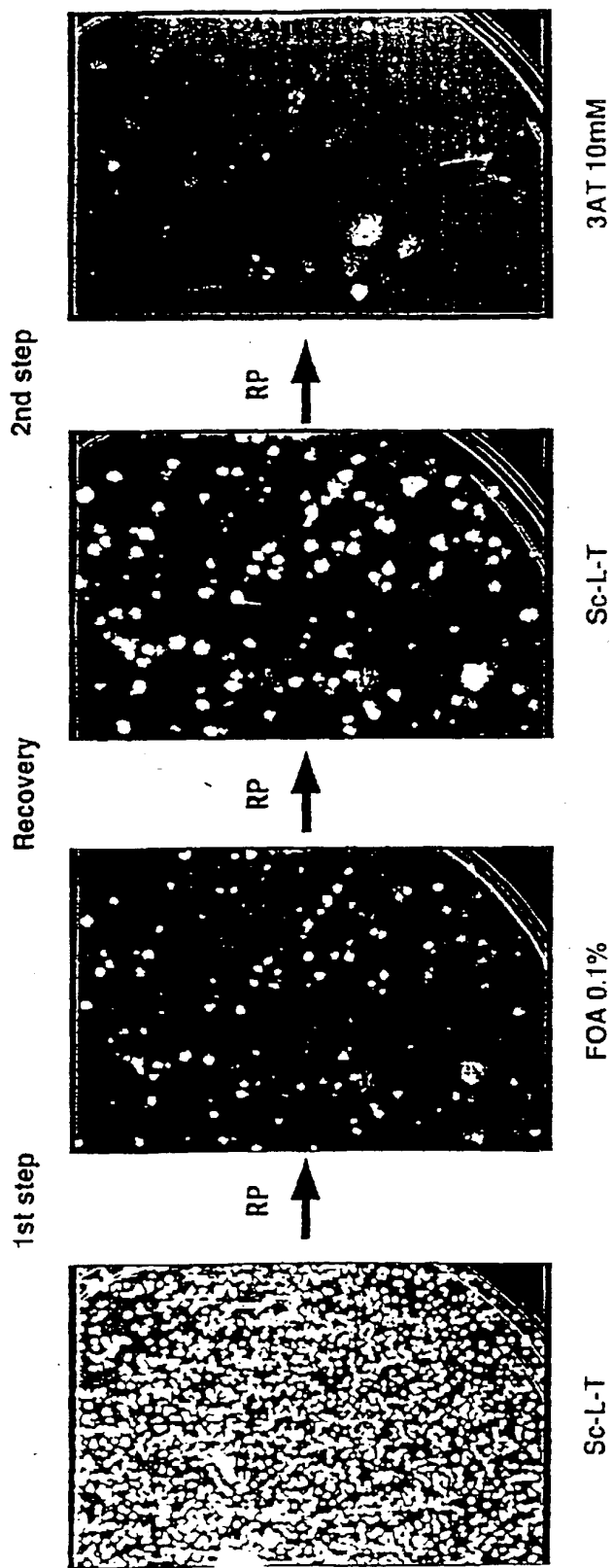


FIGURE 20

FOOTPRINT STAGE 200T

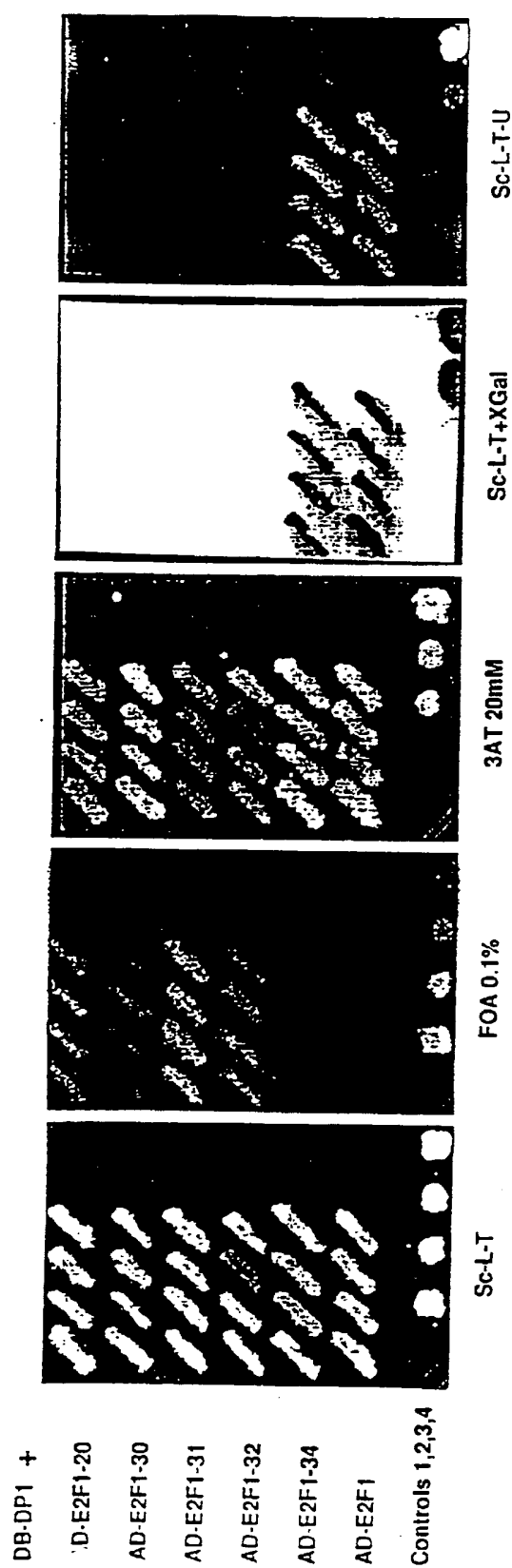


FIGURE 21

TABLE 1

MARKED BOX 2

283	Q	I	N	L	K	S	H	S	G	P	I	H	V	L	L	L	I	N	K	301	E2F5
	Q	I	H	L	K	S	V	S	G	P	I	E	V	L	L	L	V	N	K	E2F4	
	Q	I	H	L	A	S	T	Q	G	P	I	E	V	Y	L	L	C	P	E	E2F3	
	Q	I	Y	L	K	S	T	Q	G	P	I	E	V	Y	L	L	C	P	E	E2F2	
	Q	I	S	L	K	S	K	Q	G	P	I	D	V	F	L	L	C	P	E	E2F1	
	T																			E2F1-20	
								P				G								E2F1-30	
	T																			E2F1-32	
																				E2F1-31	
	N																			E2F1-65	

FIGURE 22

FOI 2017-0122001

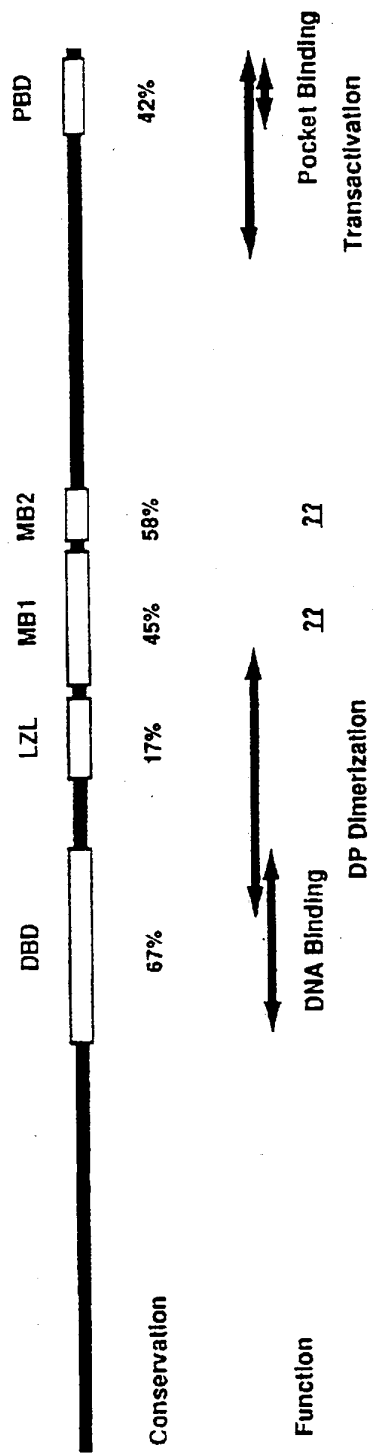


FIGURE 23A

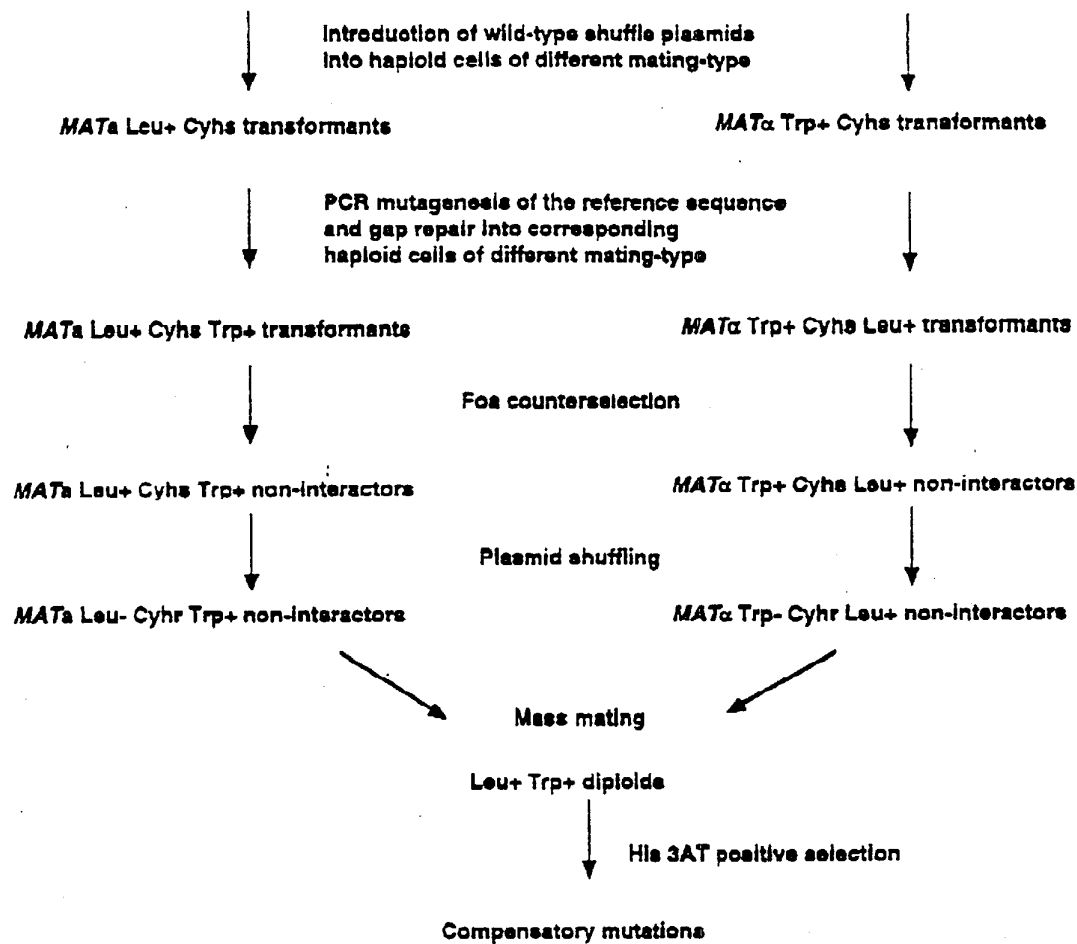


FIGURE 23B

Matter No.: 10974-239005
Applicant(s): Marc Vidal et al.
REVERSE TWO-HYBRID SYSTEMS

Page 26 of 28

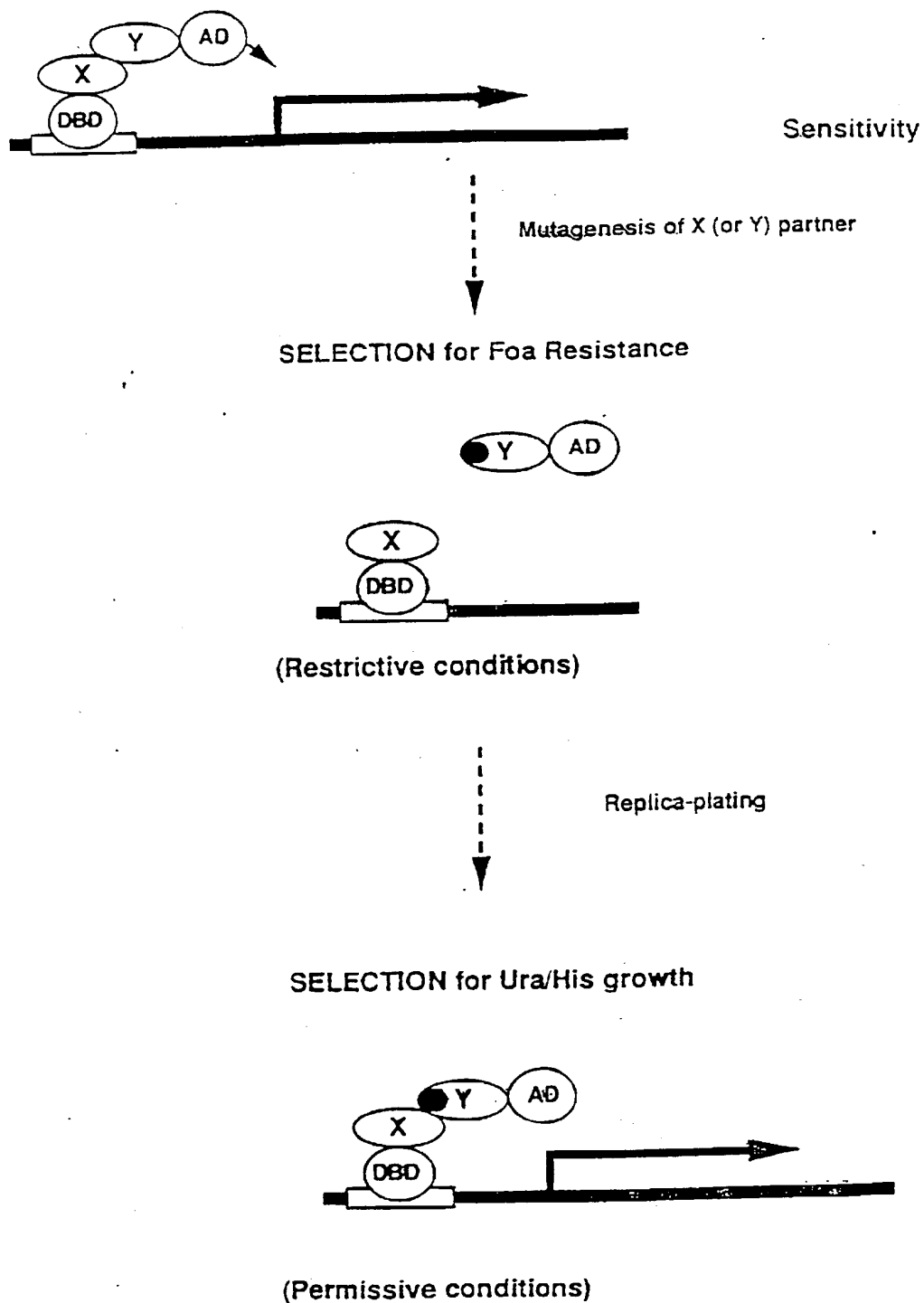


FIGURE 24

FOF22T 51222007

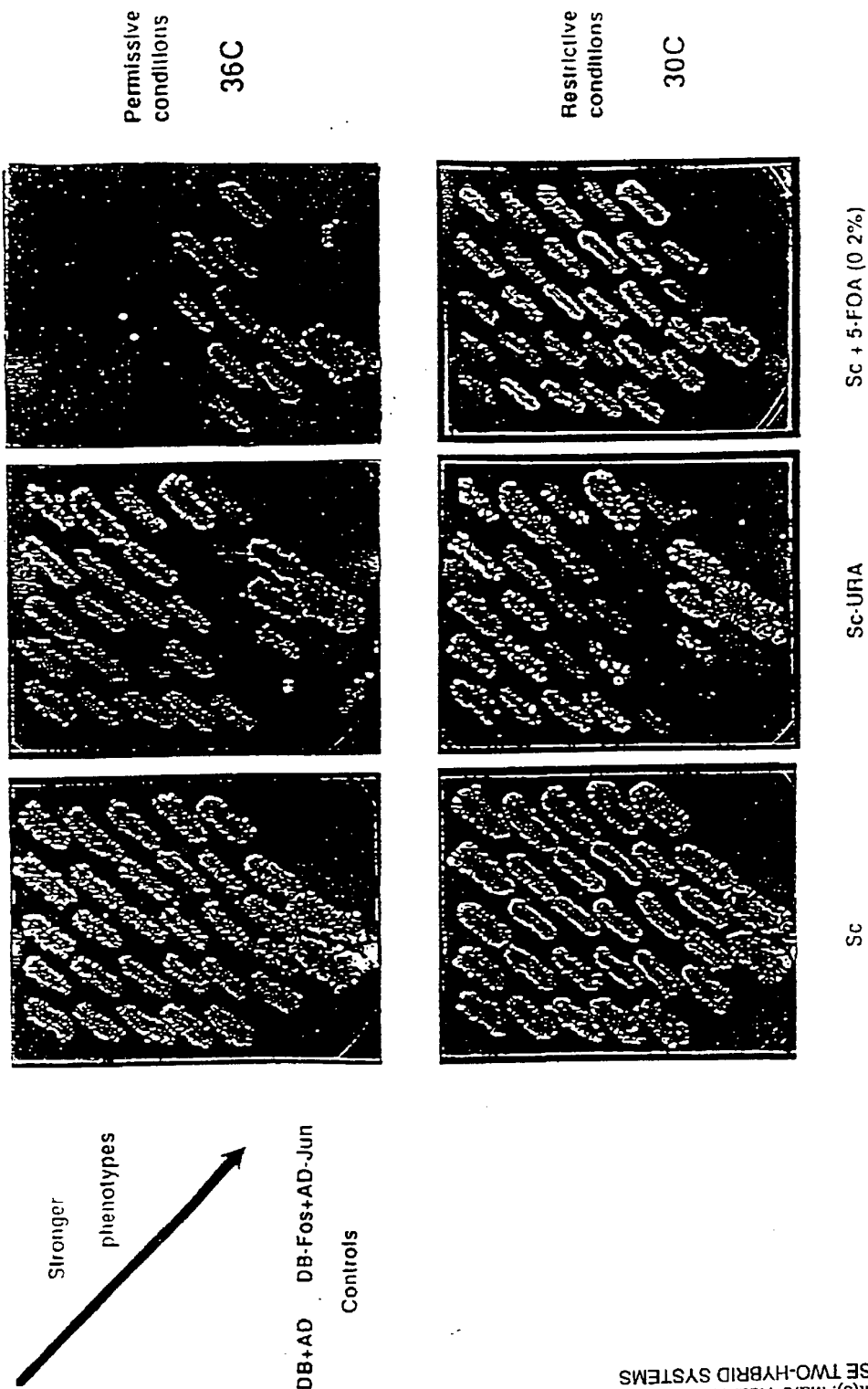


FIGURE 25

